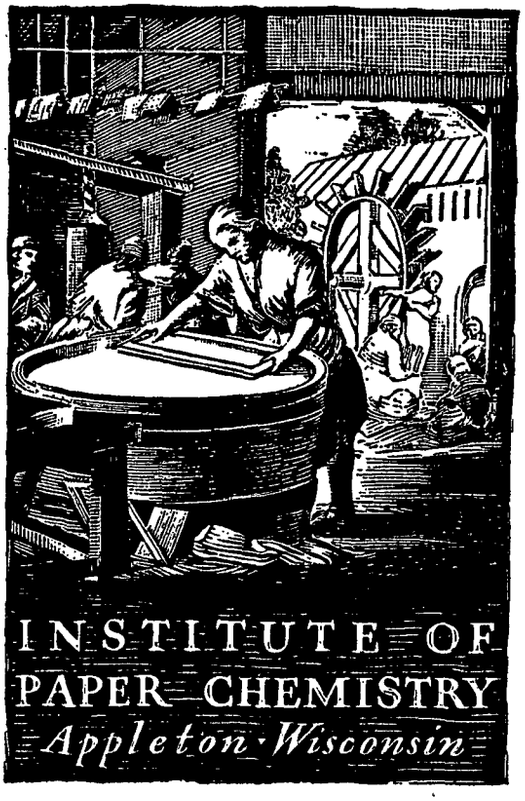


CONTINUOUS BASELINE STUDY

Project 1108-13

Progress Report 100

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

November 1, 1955

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASELINE STUDY

Project 1108-13

PROGRESS REPORT 100

to

Fourdrinier Kraft Board Institute, Inc.

November 1, 1955

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

In conjunction with the F.K.I. Continuous Baseline Study, one hundred and two different sample lots of 42-lb. Fourdrinier kraft linerboard were submitted by seventeen different F.K.I. mills to The Institute of Paper Chemistry for testing during the period October 1 through October 31. In addition to the 42-lb. kraft linerboard, two samples of drum linerboard and three samples of miscellaneous linerboard were submitted for evaluation by one of the participating mills. The results on the special stock are tabulated separately in this report. A tabulation on the number of samples classified according to mill may be seen in Table I.

TABLE I

DISTRIBUTION OF 42-LB. LINERBOARD SAMPLES

Mill Code	Samples Submitted
A	10
B	6
C	8
D	16
E	2
F	12
G	6
H	4
I	6
J	6
K	2
L	6
M	4
N	4
O	1
P	6
Q	3
	102

These sample lots were tested for basis weight, caliper, bursting strength, and Elmendorf tear. The average strength results for each mill may be seen in Table II and are graphically presented in Figures 1 to 6. In addition to a comparison of the mill averages for the various tests, Table II also shows the current F.K.I. averages, the cumulative F.K.I. averages, and the F.K.I. indexes. The cumulative F.K.I. average is based on the results for the previous twelve months excluding the current period. Hence, in the case of the current report, it covers the period from October 1, 1954, to September 30, 1955. The F.K.I. indexes are obtained as follows:

$$\frac{\text{current F.K.I. average}}{\text{cumulative F.K.I. average}} \times 100 = \text{F.K.I. index (\%)}$$

The F.K.I. index provides a ready means of comparing the current quality with previous results. For example, the current F.K.I. average basis weight is 43.0 lb. The cumulative F.K.I. average basis weight is also 43.0 lb. Hence, the index for basis weight determined in per cent as indicated above is 100.0. This signifies that the current average basis weight is the same as the cumulative average, which in this case covered the period from October 1, 1954, through September 30, 1955.

A comparison of the results in Table II and Figure 1 shows that the average basis weight results for all mills except N conform to the 42-lb. specification set forth in Rule 41. Mill K has the highest average basis weight, it being 44.5 lb. or approximately 6.0% higher than the 42-lb. specification. On the other hand, Mill N has the lowest average basis weight, it being 41.7 lb., 0.7% lower than the 42-lb. specification.

The amount by which the mills vary from the 42-lb. specification is as follows:

Mill Code	Per cent
A	+3.8
B	+3.3
C	+4.8
D	+3.1
E	+1.7
F	+0.7
G	+3.1
H	+1.4
I	+0.7
J	+1.9
K	+6.0
L	+2.4
M	+2.6
N	-0.7
O	+2.4
P	+3.8
Q	+1.0

A comparison of the average basis weight data for the previous period with the current F.K.I. average indicates that the basis weight results have increased slightly.

A comparison of the average caliper values for the various mills (see Figure 2) shows that the mill averages vary from a low of 11.8 for Mill O to a high of 14.1 for

Mill C, the average being 12.7 which is slightly lower than the cumulative F.K.I. average of 12.8.

The average bursting strength values obtained for each mill are graphically presented in Figure 3. It may be observed in Table II that the average bursting strength values for the various mills range from a low of 102 for Mill C to a high of 118 for Mill A. The current F.K.I. average bursting strength is 108, slightly lower than the cumulative F.K.I. average of 110.

A graphic comparison of the Elmendorf tear results for the various mills is given in Figures 4 and 5. The data of Table II show that Mill K has the highest average machine direction tear value of 410 units whereas Mill I has the lowest value of 292 units. Mills K and I also have the highest and lowest cross-machine tear values, 415 and 348 units, respectively. It may be noted that the current F.K.I. average machine and cross-machine direction tear results are only slightly lower than the cumulative averages.

A comparison of the F.K.I. indexes indicates that, for the current period, the current F.K.I. averages for caliper, bursting strength, and Elmendorf tear, are slightly lower than the respective cumulative F.K.I. averages, whereas the current F.K.I. average for basis weight is the same as the cumulative.

In order to compare the variation within a given mill, the test results for each particular mill have been tabulated in Tables III to XIX for Mills A to Q, respectively. In addition to the current and cumulative averages, the mill factor and mill index are given for each mill. The cumulative mill average is the average test result obtained on the samples submitted by the particular mill for the previous twelve months excluding the current period. The mill factor and the mill index are obtained as follows:

$$\frac{\text{current mill average}}{\text{cumulative mill average}} \times 100 = \text{mill factor (\%)}$$

$$\frac{\text{current mill average}}{\text{cumulative F.K.I. average}} \times 100 = \text{mill index (\%)}$$

The mill factor and the mill index serve as a ready means for comparing the current mill results either with the previous results for that particular mill or with the cumulative F.K.I. results. The reports also contain a comparison of the test data obtained at the mills with test data obtained at The Institute of Paper Chemistry.

The results obtained on the special drum stock may be seen in Table XX.

It may be noted in Table III through XX that the test data include information about the sheet finish. The summarized results for the mills which submitted sample lots during the current period are as follows:

Mill Code	No. of Sample Lots W.F.	D.F.	Misc.
A	10		
B	6		
C	8[a]		
D	16		
E	2[a], 2[b]		
F	11		1[c]
G	6		
H	4		
I	6[a]		
J	2	4	
K	2		
L			6[c]
M	4		
N	4[a]		
O	1		
P	5		1[c]
Q	3[a]		

[a] One side only
[b] Drum linerboard
[c] Sheet finish not reported

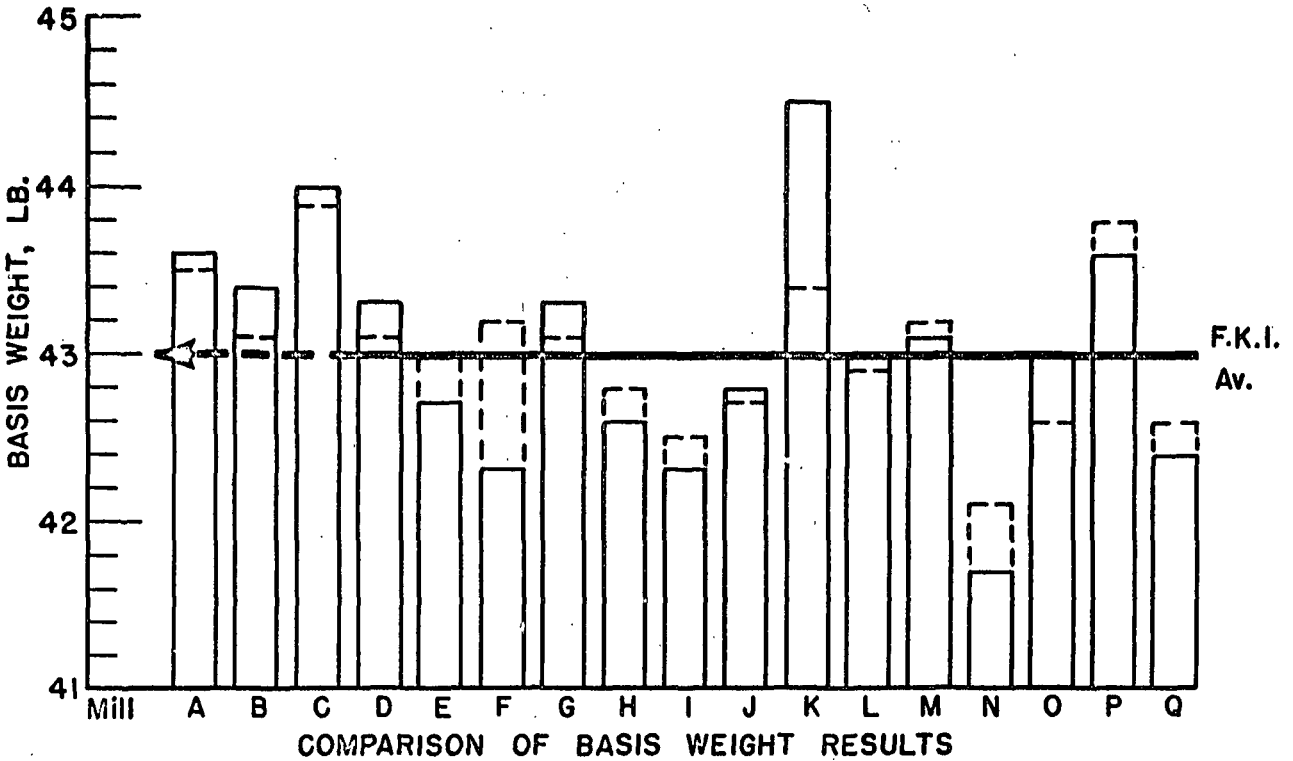
The results indicate that a majority of the mills are using a water finish on their 42-lb. linerboard.

TABLE II

SUMMARY OF COMPOSITE MILL AVERAGES--OCTOBER 1 THROUGH OCTOBER 31, 1955

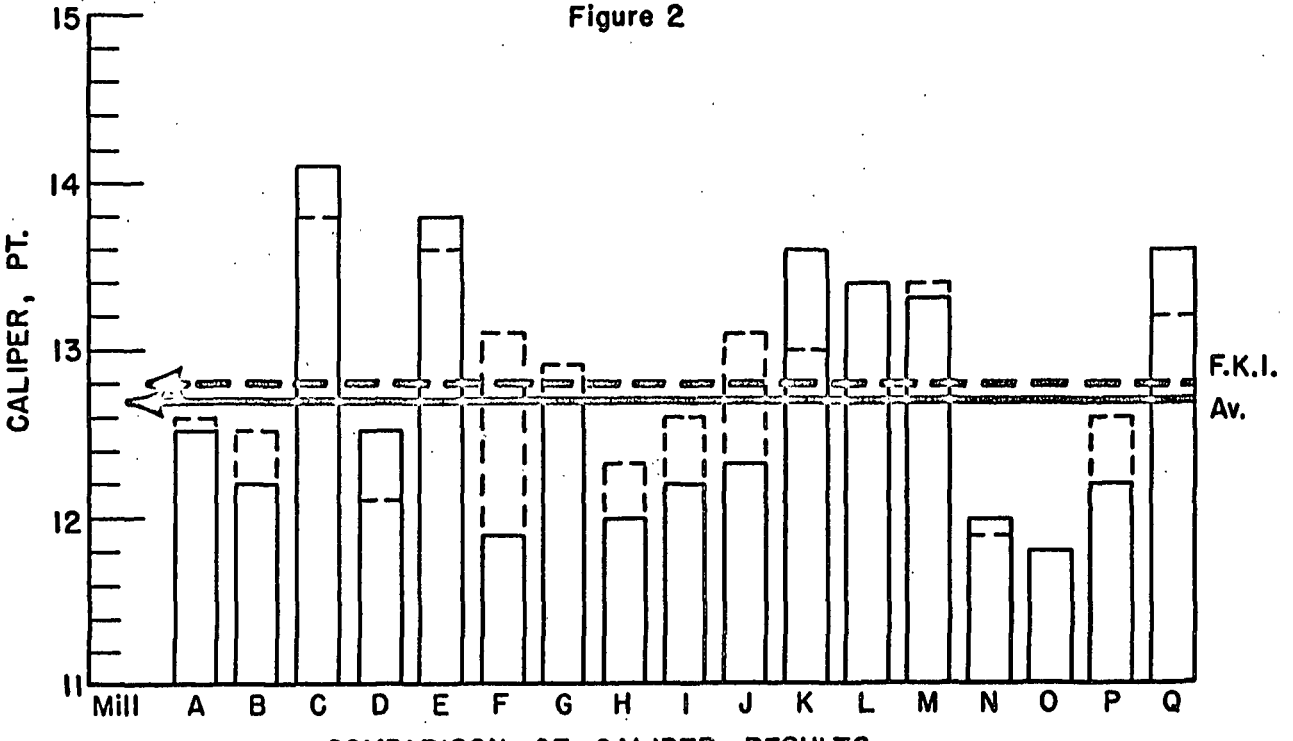
Mill	Basis Weight, lb.	Caliper, points	Bursting Strength, p.s.i. gage	Elmendorf Tear, g./sheet	
				In Machine	Cross Machine
A	43.6	12.5	118	334	391
B	43.4	12.2	114	323	365
C	44.0	14.1	102	335	367
D	43.3	12.5	109	354	384
E	42.7	13.8	104	366	381
F	42.3	11.9	108	377	409
G	43.3	12.7	107	330	366
H	42.6	12.0	112	360	374
I	42.3	12.2	107	292	348
J	42.8	12.3	105	354	361
K	44.5	13.6	104	410	415
L	43.0	13.4	106	339	382
M	43.1	13.3	109	370	392
N	41.7	12.0	105	347	385
O	43.0	11.8	112	375	402
P	43.6	12.2	110	367	398
Q	42.4	13.6	104	346	373
Current FKI Average:	43.0	12.7	108	352	382
Cumulative FKI Average:	43.0	12.8	110	356	385
FKI Index, %	100.0	99.2	98.2	98.9	99.2

Figure 1



COMPARISON OF BASIS WEIGHT RESULTS
(Period Oct. 1 – Oct. 31, 1955)

Figure 2

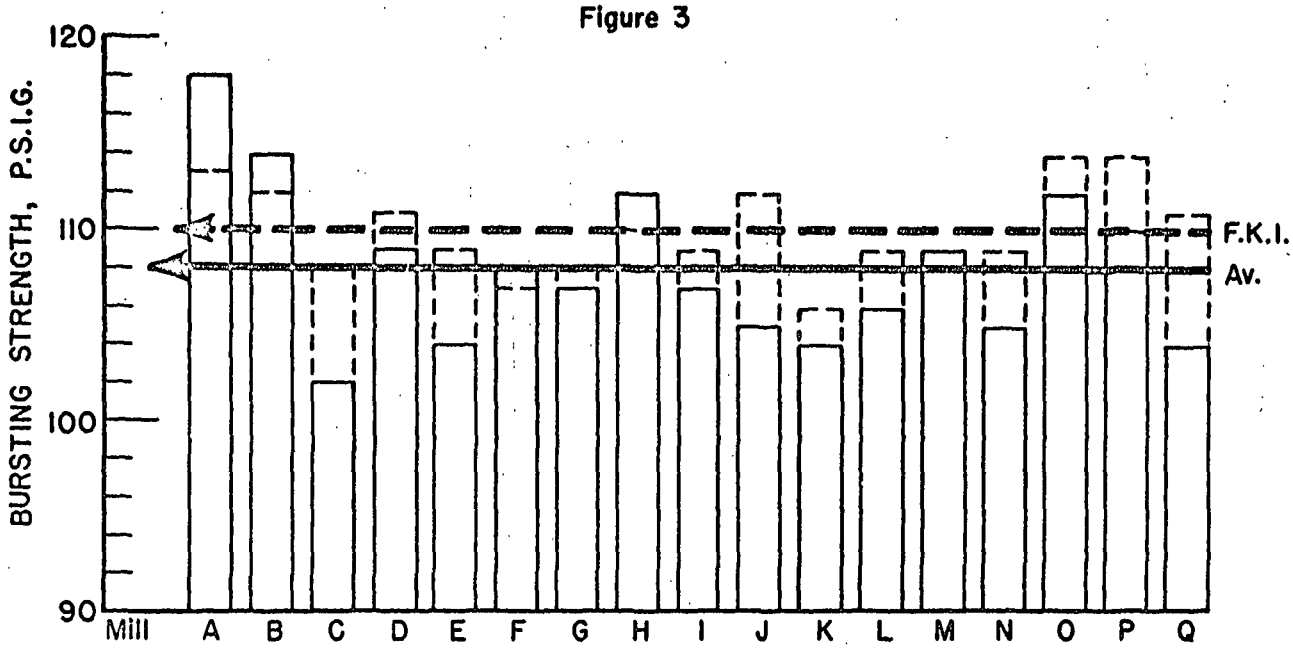


COMPARISON OF CALIPER RESULTS
(Period Oct. 1 – Oct. 31, 1955)

——— Current mill average

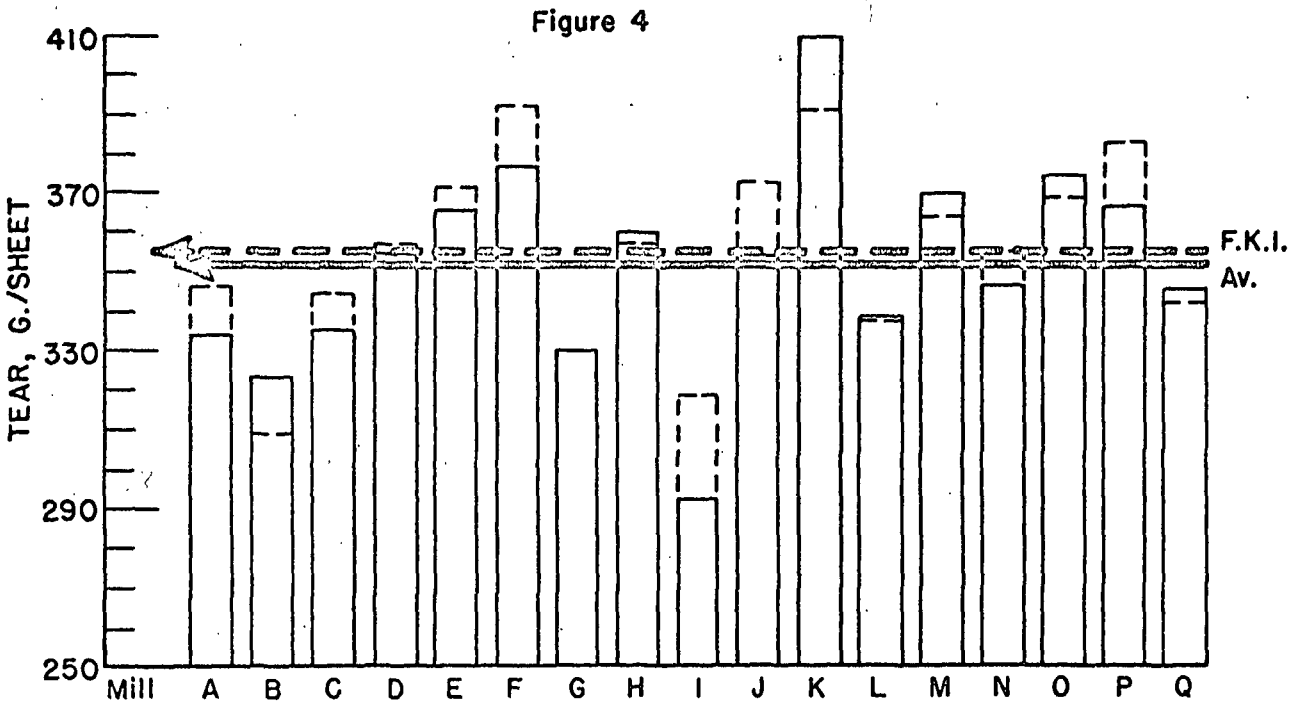
– – – – – Cumulative mill average

Figure 3



COMPARISON OF BURSTING STRENGTH RESULTS
(Period Oct. 1 — Oct. 31, 1955)

Figure 4



COMPARISON OF TEAR RESULTS, Machine Direction
(Period Oct. 1 — Oct. 31, 1955)

——— Current mill average
– – – – – Cumulative mill average

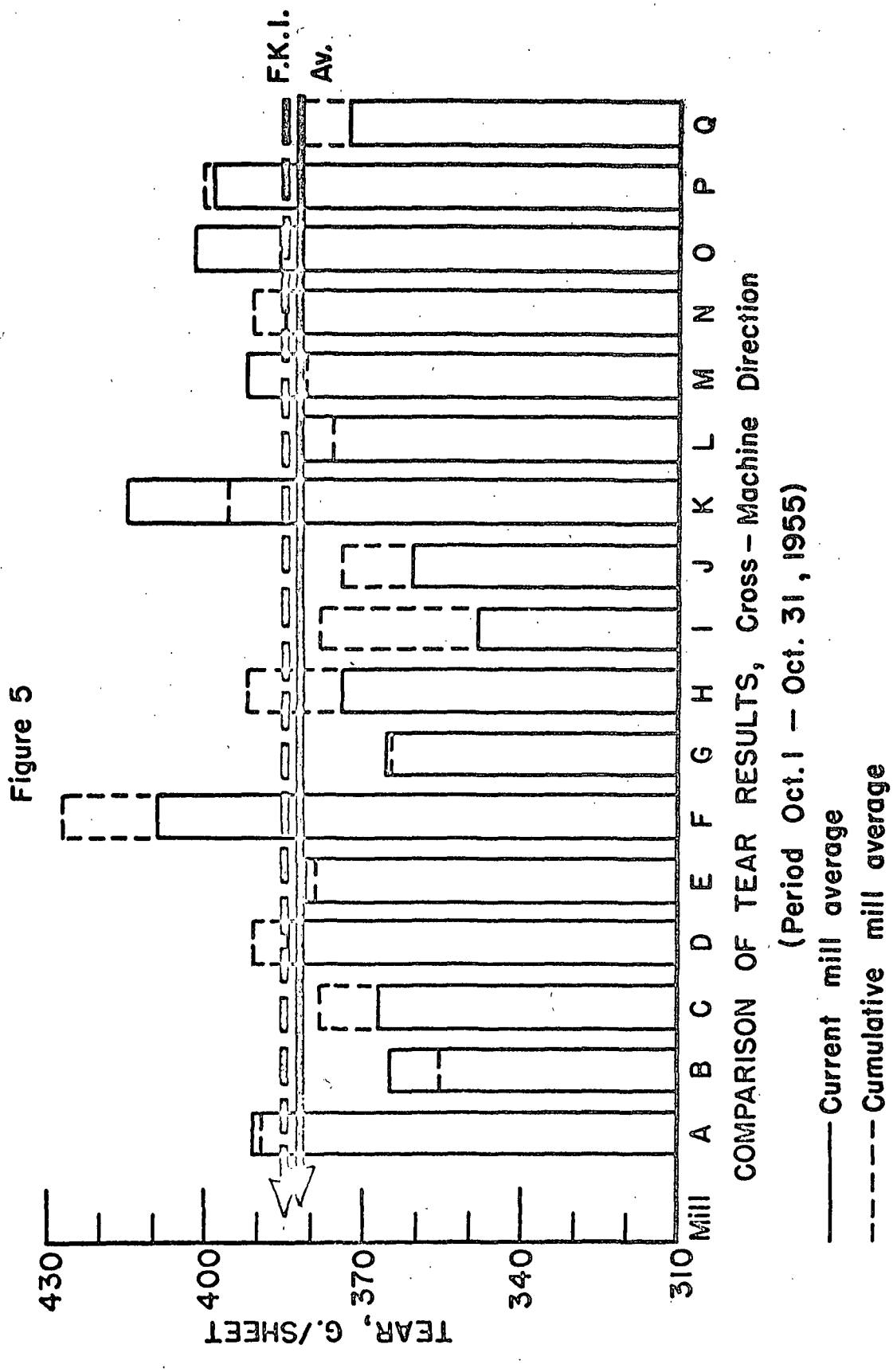

F.K.I. Av.
A B C D E F G H I J K L M N O P Q
Mill
430
400
370
340
310
TEAR, G./SHEET
COMPARISON OF TEAR RESULTS, Cross-Machine Direction
(Period Oct. 1 — Oct. 31, 1955)
Current mill average
Cumulative mill average

Figure 5

TABLE III

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill A--42-lb. Linerboard																				
166098	A-690	W.F.	10/ 1/55	9/25/55	1	44.0	43.0	43.6	13.0	12.4	12.7	141	106	120	368	312	336[a]	448	368	392[a]
166099	A-691	W.F.	10/ 1/55	9/26/55	1	42.6	41.4	42.0	12.4	11.4	12.0	135	107	120	360	256	297[a]	416	344	368[a]
166288	A-692	W.F.	10/13/55	10/ 2/55	1	44.4	43.2	44.0	13.1	12.2	12.7	142	103	117	368	272	317	432	352	382[a]
166289	A-693	W.F.	10/13/55	10/ 2/55	2	45.4	42.4	44.4	13.1	11.4	12.4	137	96	117	416	328	371[a]	432	368	398[a]
166314	A-694	W.F.	10/15/55	10/ 9/55	2	43.8	42.2	43.2	12.5	11.8	12.2	130	87	110	368	272	312	408	336	367[a]
166315	A-695	W.F.	10/15/55	10/10/55	2	43.2	42.2	42.7	12.5	11.5	12.2	130	93	113	384	288	328[a]	392	344	367[a]
166499	A-696	W.F.	10/28/55	10/19/55	2	44.6	43.8	44.2	12.9	12.0	12.4	150	103	123	400	280	350	464	368	415[a]
166500	A-697	W.F.	10/28/55	10/19/55	2	44.6	43.6	44.0	13.1	12.0	12.6	138	104	122	400	272	353[a]	424	368	395[a]
166501	A-698	W.F.	10/28/55	10/23/55	2	44.6	43.2	43.8	13.1	12.3	12.8	150	91	116	384	288	335[a]	416	368	401[a]
166502	A-699	W.F.	10/28/55	10/23/55	2	44.8	43.0	43.9	13.4	12.0	12.7	134	79	116	368	312	338	448	400	425[a]
Current Mill Average:								43.6			12.5			118			334			391
Cumulative Mill Average:								43.5			12.6			113			347			389
Mill Factor, %								100.2			99.2			104.4			96.3			100.5
Mill Index, %								101.4			97.7			107.3			93.8			101.6

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE IV

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill B--42-lb. Linerboard														
166093	B-1241	W.F.	10/ 1/55	9/21/55	1	44.0	41.6	43.0	12.8	11.8	12.3	133	93	114	368	280	317[a]	464	320	369[a]
166094	B-1242	W.F.	10/ 1/55	9/23/55	1	44.2	41.6	43.1	12.7	11.7	12.2	127	86	112	392	272	327[a]	384	328	353[a]
166261	B-1243	W.F.	10/11/55	10/ 3/55	1	44.4	42.2	43.4	12.7	11.9	12.1	145	93	120	368	280	311	408	344	370[a]
166327	B-1244	W.F.	10/17/55	10/10/55	1	44.0	42.2	43.4	12.4	12.0	12.1	133	90	111	400	280	339[a]	392	328	359[a]
166428	B-1245	W.F.	10/24/55	10/13/55	1	44.4	42.4	43.6	12.8	11.8	12.3	135	93	113	392	288	319	440	320	371[a]
166445	B-1246	W.F.	10/25/55	10/19/55	1	44.6	43.0	43.7	13.0	11.8	12.2	132	94	113	408	280	327[a]	456	328	368[a]
Current Mill Average:								43.4			12.2			114			323			365
Cumulative Mill Average:								43.1			12.5			112			309			356
Mill Factor, %								100.7			97.6			101.8			104.5			102.5
Mill Index, %								100.9			95.3			103.6			90.7			94.8

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE V

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill C--42-lb. Linerboard														
166227	C-697	WF ISL	10/ 8/55	9/19/55	1	47.0	45.6	46.3	15.8	14.7	15.2	126	88	102	400	328	365[a]	456	344	394[a]
166228	C-698	WF ISL	10/ 8/55	9/19/55	1	46.6	46.0	46.2	15.5	14.4	15.0	119	80	99	416	280	366	408	336	363[a]
166229	C-699	WF ISL	10/ 8/55	9/20/55	1	45.0	44.2	44.7	15.2	13.8	14.4	121	67	100	376	272	324[a]	416	312	358[a]
166230	C-700	WF ISL	10/ 8/55	9/20/55	1	45.0	43.8	44.3	14.9	13.7	14.2	121	85	102	384	304	333[a]	416	304	367[a]
166231	C-701	WF ISL	10/ 8/55	9/27/55	1	43.8	42.4	43.3	13.5	12.5	13.2	132	89	108	384	248	322[a]	456	328	378[a]
166232	C-702	WF ISL	10/ 8/55	9/27/55	1	44.0	42.2	43.2	13.9	12.2	13.1	118	86	104	400	264	331[a]	392	304	348[a]
166233	C-703	WF ISL	10/ 8/55	9/27/55	1	43.0	41.2	42.1	14.1	13.6	13.8	131	79	100	368	280	328[a]	432	336	377[a]
166234	C-704	WF ISL	10/ 8/55	9/28/55	1	43.2	41.8	42.5	14.3	13.6	13.9	124	82	101	360	280	313[a]	400	312	348[a]
Current Mill Average:								44.0			14.1			102			335			367
Cumulative Mill Average:								43.9			13.8			108			344			378
Mill Factor, %								100.2			102.2			94.4			97.4			97.1
Mill Index, %								102.3			110.2			92.7			94.1			95.3

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE VI

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill D--42-lb. Linerboard														
166084	D-896	W.F.	10/ 1/55	9/20/55	4	43.8	42.2	42.9	13.0	12.1	12.6	124	84	102	384	280	331[a]	424	336	383[a]
166085	D-897	W.F.	10/ 1/55	9/21/55	4	44.2	43.6	43.9	12.7	11.9	12.2	136	90	113	352	272	315[a]	480	344	394[a]
166086	D-898	W.F.	10/ 1/55	9/22/55	4	44.0	42.8	43.4	12.8	12.1	12.4	136	93	111	432	312	373[a]	472	352	396[a]
166087	D-899	W.F.	10/ 1/55	9/23/55	4	43.4	42.4	42.9	13.4	12.5	13.0	131	75	104	456	320	361[a]	464	336	384[a]
166179	D-900	W.F.	10/ 6/55	10/ 1/55	4	44.0	42.0	43.0	12.6	12.0	12.2	123	85	107	424	272	341[a]	440	304	379[a]
166180	D-901	W.F.	10/ 6/55	10/ 2/55	4	43.2	42.0	42.7	13.0	12.0	12.4	124	100	115	416	304	358[a]	480	352	401[a]
166181	D-902	W.F.	10/ 6/55	10/ 3/55	4	44.2	43.6	44.0	12.9	11.5	12.3	137	80	112	400	320	355[a]	424	352	389[a]
166235	D-903	W.F.	10/10/55	10/ 4/55	4	43.6	42.2	43.1	12.8	12.0	12.4	133	84	108	416	312	362[a]	408	344	369[a]
166236	D-904	W.F.	10/10/55	10/ 5/55	4	43.4	42.0	42.6	13.0	12.2	12.7	142	73	108	416	280	343[a]	432	312	382[a]
166237	D-905	W.F.	10/10/55	10/ 6/55	4	44.4	43.6	44.0	12.8	12.0	12.4	134	94	113	408	312	353[a]	464	336	397[a]
166320	D-906	W.F.	10/17/55	10/ 7/55	4	43.0	42.0	42.4	12.8	12.0	12.4	125	98	110	384	320	352[a]	416	312	355[a]
166321	D-907	W.F.	10/17/55	10/ 8/55	4	43.8	42.0	42.6	12.9	12.0	12.5	117	80	102	432	304	347[a]	432	320	381[a]
166322	D-908	W.F.	10/17/55	10/ 9/55	4	44.0	42.8	43.5	13.2	12.4	12.7	130	91	110	384	320	355[a]	448	328	382[a]
166407	D-909	W.F.	10/24/55	10/17/55	4	44.4	44.0	44.1	13.2	12.6	12.9	125	87	105	408	336	367[a]	408	320	367[a]
166408	D-910	W.F.	10/24/55	10/18/55	4	44.8	44.0	44.3	13.0	12.5	12.8	137	82	110	440	304	371[a]	416	368	395[a]
166409	D-911	W.F.	10/24/55	10/19/55	4	44.4	43.4	43.9	13.1	12.5	12.8	130	90	111	448	320	379[a]	464	352	397[a]
Current Mill Average:								43.3			12.5			109			354			384
Cumulative Mill Average:								43.1			12.1			111			357			391
Mill Factor, %								100.5			103.3			98.2			99.2			98.2
Mill Index, %								100.7			97.7			99.1			99.4			99.7

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE VII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill E--42-lb. Linerboard																				
166301	E-179	WF1S	10/14/55	10/10/55	2	43.2	41.0	42.2	14.3	13.2	13.7	135	89	105	416	272	354[a]	448	336	381[a]
166463	E-181	WF1S	10/26/55	10/21/55	2	44.0	42.0	43.2	14.3	13.3	13.9	118	90	104	416	280	377[a]	432	320	381[a]
Current Mill Average:								42.7			13.8			104			366			381
Cumulative Mill Average:								43.0			13.6			109			371			379
Mill Factor, %								99.3			101.5			95.4			98.7			100.5
Mill Index, %								99.3			107.8			94.5			102.8			99.0

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE VIII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill F--42-lb. Linerboard														
166128	F-50	W.B.	10/ 4/55	9/19/55	--	45.6	43.4	44.2	12.5	11.2	11.7	123	84	105	400	344	371[a]	472	352	407[a]
166129	F-51	W.B.	10/ 4/55	9/21/55	--	43.6	40.6	42.4	12.2	10.7	11.7	120	76	104	424	344	380[a]	440	344	393[a]
166130	F-52	W.B.	10/ 4/55	9/22/55	--	43.8	41.4	42.2	12.3	11.4	11.8	134	89	110	440	328	385[a]	440	352	401[a]
166131	F-53	W.B.	10/ 4/55	9/22/55	--	43.0	40.0	41.3	12.3	11.1	11.7	133	78	104	432	352	391[a]	464	376	407[a]
166262	F-54	W.B.	10/11/55	9/27/55	--	43.8	40.4	42.1	12.9	11.4	12.1	118	81	106	424	320	385[a]	456	368	405[a]
166263	F-55	W.B.	10/11/55	9/27/55	--	43.2	40.6	42.0	12.4	11.4	11.9	125	91	112	424	296	356[a]	440	360	403[a]
166276	F-56	W.B.	10/12/55	9/28/55	--	45.0	42.2	43.6	12.6	12.0	12.3	135	106	117	464	344	387[a]	480	368	420[a]
166277	F-57	W.B.	10/12/55	9/29/55	--	43.6	40.8	42.4	12.7	11.8	12.1	124	90	109	416	336	371[a]	472	352	418[a]
166420	F-58	W.B.	10/24/55	10/ 6/55	--	45.0	41.0	42.8	12.5	11.5	12.1	125	90	108	432	352	392[a]	504	384	425[a]
166421	F-59	W.B.	10/24/55	10/10/55	--	42.6	40.0	41.0	12.4	11.0	11.6	128	94	112	432	320	363[a]	464	368	413[a]
166422	F-60	----	10/24/55	10/10/55	--	42.0	40.0	40.9	11.9	11.0	11.4	121	87	105	440	328	359[a]	472	368	409[a]
166423	F-61	W.B.	10/24/55	10/12/55	--	43.6	41.6	42.6	12.8	11.8	12.2	119	87	110	448	328	387[a]	488	344	408[a]
Current Mill Average:								42.3			11.9			108			377			409
Cumulative Mill Average:								43.2			13.1			107			393			427
Mill Factor, %								97.9			90.8			100.9			95.9			95.8
Mill Index, %								98.4			93.0			98.2			105.9			106.2

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE IX

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill G--42-lb. Linerboard																				
166132	G-680	W.F.	10/ 4/55	9/25/55	2	44.0	42.0	42.8	13.0	11.8	12.4	118	88	106	352	272	295[a]	352	280	308[a]
166344	G-681	W.F.	10/18/55	10/ 8/55	2	45.0	42.6	44.0	14.1	12.8	13.4	130	82	110	440	344	379[a]	464	360	397[a]
166345	G-682	W.F.	10/18/55	10/ 8/55	2	45.4	43.4	44.2	14.5	12.9	13.8	149	84	113	400	304	355[a]	432	352	392[a]
166346	G-683	W.F.	10/18/55	10/ 9/55	2	43.8	42.0	42.6	12.9	11.3	12.0	128	83	105	360	256	307	400	320	356[a]
166355	G-184	W.F.	10/19/55	10/ 9/55	2	44.4	42.2	43.4	13.0	11.9	12.5	132	91	106	416	304	346[a]	432	352	380[a]
166404	G-185	W.F.	10/22/55	10/11/55	2	43.6	42.0	42.7	12.7	11.3	12.0	134	75	105	344	264	299[a]	408	320	360[a]
Current Mill Average:								43.3			12.7			107			330			366
Cumulative Mill Average:								43.1			12.9			108			330			365
Mill Factor, %								100.5			98.4			99.1			100.0			100.3
Mill Index, %								100.7			99.2			97.3			92.7			95.1

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE X

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill H--42-lb. Linerboard														
166126	H-525	W.F.	10/ 4/55	9/26/55	2	44.0	41.8	42.8	12.8	11.0	11.9	135	100	114	392	288	353[a]	432	360	393[a]
166127	H-526	W.F.	10/ 4/55	9/27/55	2	44.0	42.4	43.0	12.6	11.5	12.1	143	88	112	408	312	361[a]	440	344	375[a]
166264	H-527	W.F.	10/11/55	10/ 3/55	2	42.8	42.0	42.3	12.2	11.5	11.9	127	77	105	416	352	377[a]	384	328	359[a]
166265	H-528	W.F.	10/11/55	10/ 4/55	2	43.0	41.8	42.4	12.3	11.3	12.0	148	100	117	384	312	347[a]	400	336	368[a]
Current Mill Average:								42.6			12.0			112			360			374
Cumulative Mill Average:								42.8			12.3			110			357			392
Mill Factor, %								99.5			97.6			101.8			100.8			95.4
Mill Index, %								99.1			93.8			101.8			101.1			97.1

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XI

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill I--42-lb. Linerboard														
166088	I-492	WF1S	10/ 1/55	9/20/55	1	43.4	41.6	42.4	12.9	11.6	12.2	122	76	108	376	248	315[a]	400	312	347[a]
166089	I-493	WF1S	10/ 1/55	9/22/55	1	43.0	41.2	42.1	12.8	11.8	12.2	119	80	106	320	264	293[a]	376	320	350[a]
166091	I-494	WF1S	10/ 1/55	9/22/55	1	43.4	40.6	42.0	12.5	11.8	12.2	127	85	109	336	240	284	368	296	332[a]
166092	I-495	WF1S	10/ 1/55	9/23/55	1	43.0	41.4	42.2	12.5	11.6	12.1	125	81	106	336	240	271	376	320	341[a]
166347	I-496	WF1S	10/18/55	10/12/55	1	43.8	41.0	42.6	13.0	11.7	12.2	134	93	109	368	256	295	384	336	351[a]
166427	I-497	WF1S	10/24/55	10/17/55	1	43.6	41.8	42.8	13.0	11.8	12.4	132	86	105	320	272	294[a]	400	336	369[a]
Current Mill Average:								42.3			12.2			107			292			348
Cumulative Mill Average:								42.5			12.6			109			319			378
Mill Factor, %								99.5			96.8			98.2			91.5			92.1
Mill Index, %								98.4			95.3			97.3			82.0			90.4

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill J--42-lb. Linerboard														
166096	J-557	D.F.	10/ 1/55	9/23/55	--	43.8	42.2	42.8	13.5	12.2	12.9	126	82	108	440	312	346[a]	408	336	357[a]
166097	J-558	D.F.	10/ 1/55	9/23/55	--	44.2	42.0	43.0	14.0	12.2	13.1	125	76	100	392	304	339[a]	472	336	374[a]
166316	J-559	W.F.	10/15/55	10/ 4/55	--	43.4	40.8	42.4	12.6	11.6	12.1	133	92	111	448	352	388[a]	384	344	363[a]
166317	J-560	W.F.	10/15/55	10/ 4/55	--	43.2	42.0	42.5	12.6	11.3	12.0	131	75	109	416	328	371[a]	400	320	363[a]
166405	J-561	D.F.	10/24/55	10/16/55	--	43.8	42.0	43.0	12.9	11.2	12.0	115	87	102	384	280	339[a]	432	296	357[a]
166406	J-562	D.F.	10/24/55	10/16/55	--	43.8	41.6	42.9	12.6	11.0	11.9	119	83	100	376	296	341	432	312	351[a]
Current Mill Average:								42.8			12.3			105			354			361
Cumulative Mill Average:								42.7			13.1			112			373			374
Mill Factor, %								100.2			93.9			93.8			94.9			96.5
Mill Index, %								99.5			96.1			95.5			99.4			93.8

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XIII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill K--42-lb. Linerboard																				
166330	K-30	S.F.	10/17/55	10/11/55	7	45.4	42.4	44.1	13.9	12.9	13.5	131	80	104	456	336	399[a]	480	352	410[a]
166481	K-31	S.F.	10/27/55	10/20/55	7	47.0	42.2	45.0	14.4	12.9	13.6	139	75	105	504	376	421[a]	472	384	420[a]
Current Mill Average:								44.5			13.6			104			410			415
Cumulative Mill Average:								43.4			13.0			106			392			396
Mill Factor, %								102.5			104.6			98.1			104.6			104.8
Mill Index, %								103.5			106.2			94.5			115.2			107.8

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XIV

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill L--42-lb. Linerboard														
166297	L-395		10/14/55	9/18/55	1	44.2	41.4	42.4	13.3	11.6	12.5	135	82	107	384	304	347[a]	400	328	365[a]
166298	L-396		10/14/55	9/19/55	1	43.4	40.4	42.5	13.8	12.6	13.4	119	83	106	368	296	330[a]	424	320	366[a]
166299	L-397		10/14/55	9/21/55	1	44.0	42.4	43.2	14.3	12.8	13.8	127	82	108	376	304	341[a]	448	352	395[a]
166300	L-398		10/14/55	9/28/55	1	44.0	42.0	43.0	14.4	12.8	13.8	128	81	105	384	320	345[a]	408	360	383[a]
166429	L-399		10/24/55	10/ 4/55	1	46.0	42.0	43.4	14.3	12.1	13.4	150	71	102	376	304	337[a]	472	344	397[a]
166430	L-400		10/24/55	10/ 8/55	1	44.2	42.2	43.2	15.0	12.2	13.7	127	88	107	392	312	335[a]	400	352	387[a]
Current Mill Average:								43.0			13.4			106			339			382
Cumulative Mill Average:								42.9			13.4			109			338			376
Mill Factor, %								100.2			100.0			97.2			100.3			101.6
Mill Index, %								100.0			104.7			96.4			95.2			99.2

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XV

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill M--42-lb. Linerboard														
166328	M-342	W.	10/17/55	10/ 3/55	2	45.0	41.4	43.6	13.4	12.8	13.0	123	90	109	392	288	357	456	320	387[a]
166329	M-343	W.	10/17/55	10/ 4/55	2	44.6	40.4	42.8	13.9	12.8	13.3	131	91	114	432	304	361	480	352	401[a]
166424	M-344	W.	10/24/55	10/11/55	4	44.2	41.8	43.2	14.0	13.2	13.5	127	95	109	392	328	355[a]	432	336	383[a]
166425	M-345	W.	10/24/55	10/14/55	4	44.0	42.0	42.8	14.0	12.5	13.2	120	84	106	464	376	408[a]	432	368	396[a]
Current Mill Average:								43.1			13.3			109			370			392
Cumulative Mill Average:								43.2			13.4			108			364			381
Mill Factor, %								99.8			99.3			100.9			101.6			102.9
Mill Index, %								100.2			103.9			99.1			103.9			101.8

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XVI

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill N--42-lb. Linerboard																				
166177	N-162	WF1S	10/ 5/55	9/27/55	1	42.0	40.4	41.3	12.3	11.5	11.9	117	86	104	360	272	333	432	352	402[a]
166178	N-163	WF1S	10/ 5/55	9/22/55	1	42.2	41.4	41.9	12.6	11.5	12.0	122	93	107	384	288	345[a]	432	336	383[a]
166251	N-164	WF1S	10/10/55	10/ 4/55	1	42.4	40.8	41.8	13.0	11.4	12.2	118	95	107	384	336	361[a]	440	320	383[a]
166252	N-165	WF1S	10/10/55	10/ 3/55	1	43.0	40.2	41.9	12.6	11.3	12.1	120	72	102	400	296	349[a]	416	336	373[a]
Current Mill Average:								41.7			12.0			105			347			385
Cumulative Mill Average:								42.1			11.9			109			356			391
Mill Factor, %								99.0			100.8			96.3			97.5			98.5
Mill Index, %								97.0			93.8			95.5			97.5			100.0

TABLE XVII

Mill O--42-lb. Linerboard																				
166090	0-92	W.F.	10/ 1/55	9/18/55	4	44.0	42.0	43.0	12.4	11.3	11.8	127	100	112	432	312	375[a]	480	352	402[a]
Current Mill Average:								43.0			11.8			112			375			402
Cumulative Mill Average:								42.6			11.8			114			369			386
Mill Factor, %								100.9			100.0			98.2			101.6			104.1
Mill Index, %								100.0			92.2			101.8			105.3			104.4

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XVIII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill P--42-lb. Linerboard																				
166414	P-107	--	10/24/55	10/12/55	--	43.8	42.0	43.0	12.8	11.5	12.0	120	84	106	416	304	354[a]	432	320	383[a]
166415	P-108	W.F.	10/24/55	10/12/55	--	44.4	41.6	43.3	12.9	11.3	12.1	122	85	106	408	320	371[a]	464	368	408[a]
166416	P-109	W.F.	10/24/55	10/13/55	--	44.4	41.8	43.0	12.8	11.0	11.8	140	94	118	448	320	375[a]	448	384	413[a]
166417	P-110	W.F.	10/24/55	10/18/55	--	44.4	42.0	43.3	13.0	11.9	12.4	140	81	109	400	288	351[a]	432	352	392[a]
166418	P-111	W.F.	10/24/55	10/18/55	--	45.8	42.4	44.8	13.4	12.0	12.7	132	86	109	448	336	372	432	336	380[a]
166419	P-112	W.F.	10/24/55	10/20/55	--	45.8	43.4	44.3	13.5	11.5	12.4	130	82	110	464	304	378[a]	464	376	409[a]
Current Mill Average:								43.6			12.2			110			367			398
Cumulative Mill Average:								43.8			12.6			114			383			400
Mill Factor, %								99.5			96.8			96.5			95.8			99.5
Mill Index, %								101.4			95.3			100.0			103.1			103.4

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XIX

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
						Mill Q--42-lb. Linerboard														
166325	Q-39	WF1S	10/17/55	10/ 3/55	--	44.2	41.4	42.7	14.1	13.2	13.8	112	84	103	424	336	373[a]	400	352	373[a]
166326	Q-40	WF1S	10/17/55	10/ 4/55	3	43.6	41.6	42.6	14.3	13.6	13.9	120	81	102	352	304	334[a]	416	360	381[a]
166403	Q-41	WF1S	10/22/55	10/13/55	3	43.0	41.0	42.0	14.1	12.0	13.2	129	91	106	368	296	331[a]	392	336	365[a]
Current Mill Average:								42.4			13.6			104			346			373
Cumulative Mill Average:								42.6			13.2			111			343			382
Mill Factor, %								99.5			103.0			93.7			100.9			97.6
Mill Index, %								98.6			106.2			94.5			97.2			96.9

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XX

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill E--47-lb. Drum Linerboard																				
166210	E-177	W.F.	10/ 7/55	9/29/55	2	46.0	45.0	45.7	14.7	13.4	14.0	120	80	104	384	320	353[a]	456	352	403[a]
166426	E-180	W.F.	10/24/55	10/17/55	2	47.0	45.6	46.1	14.2	13.0	13.5	113	80	95	456	352	395[a]	440	328	395[a]
Current Mill Average:								45.9			13.8			100			374			399
Cumulative Mill Average:								47.1			14.3			102			402			404
Mill Factor, %								97.5			96.5			98.0			93.0			98.8
Mill E--38-lb. Linerboard																				
166095	E-176	WF1S	10/ 1/55	9/26/55	2	38.0	35.8	37.0	12.9	11.4	11.8	99	72	86	392	264	329[a]	368	288	319[a]
166253	E-178	WF1S	10/10/55	10/ 5/55	2	38.6	36.4	37.7	12.3	11.2	11.9	112	83	100	352	272	316[a]	384	296	343[a]
166503	E-182	WF1S	10/28/55	10/24/55	2	38.8	38.0	38.2	12.9	11.0	11.9	111	76	97	352	272	301[a]	392	288	329[a]

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

As a supplementary part of the Continuous Baseline Study, comparison of the mill test results with those obtained at The Institute of Paper Chemistry on corresponding samples have been included in this report. As may be noted in Table XXI, the atmospheric conditions used prior to and during the testing period varied considerably.

TABLE XXI

	Preconditioning			Conditioning		
Code	R.H. %	Temp., °F.	Time, hr.	R.H. %	Temp., °F.	Time, hr.
A	50	73	24	50-51	73-74	24
B	44-100	68-96	0.5	50	70	24-48
C	50	73	24-216	50	73	24-216
D	31-36	78-79	8	50-52	71-72	16
E		None		56-61	80-84	--
F		None		45-50	71-73	48
G	50	73	24	50	73	24
H		None		50	73	24
I		None		47-53	70-73	--
J		None		50	73	0.5
K	50	73	24	50	73	--
L		None		68-70	86-88	--
M		None		60-68	65-74	--
N	50	73	24	50	73	24
O		None		50	73	24
P	50	73	72-96	50	73	24-48
Q	64	62-74	72-104	59-69	74-76	1-72
E*		None		54-69	75-82	--

* Drum linerboard.

A summary of the mill comparisons for the current period as compared with the previous period may be seen in Tables XXII and XXIII, respectively. The comparison for the various mills is given in Tables XXIV to XXXX, for the 42-lb. liner samples. A comparison of the special drum stock is given in Table XL. In all the comparisons given in Tables XXII to XLI, the Institute's test values have been used as the reference line.

A comparison of the test data in Tables XXLL and XXIII indicates that agreement between the mill and Institute data is good in the majority of cases. Table XXII shows the average difference encountered in the comparison of Institute and mill test results for the sample lots submitted by each mill for the current period, as well as the maximum difference encountered in comparing the Institute and mill test results for a given

sample lot. In Table XXIII, the average difference shown for each test in Table XXII have been calculated on a percentage basis for each mill. In addition, for purposes of comparison, the average percentage differences for the preceding two periods are shown.

It may be noted in Table XXIII that the maximum variation between the average basis weight results of the Institute and those of a given mill on corresponding samples is two per cent for the current period. This maximum percentage variation agrees favorably with the corresponding variations for the previous periods. Further, it may be noted that the average basis weight results for Mills A, B, C, F, J, K, L, M, P, and Q are lower than those for the Institute, the average results for Mills D, E, H, and I are higher, and the average results for Mills G, N, and O are the same. In general, the agreement between Institute and mill basis weight results is good for all mills.

The maximum variation in caliper for the current period is nine per cent. Compared with the values for the Institute, the average result for Mill I is the same, and the average results for the other mills are lower. The accord between Institute and Mill caliper values is good with the exception of Mills E and M.

It may be noted in Table XXIII that the bursting strength results exhibit a maximum variation of ten per cent for the current period. The average results for Mills A, D, G, H, J, and P are lower than those for the Institute, the result for Mill N is the same, and the results for the other mills are higher. The agreement in bursting strength results is good for all mills except Mill Q.

It may be seen in Tables XXII and XXIII that the average machine direction tear results for Mills D, F, G, I, M, N, P, and Q are higher than those for the Institute, and the results for the other mills are lower. The maximum variation for the current period is sixteen per cent. The differences encountered for Mills E, G, I, and O appear to be excessive.

With regard to the cross-machine direction tear results, it may be noted that the average results for Mills B, C, D, F, G, H, I, J, K, L, M, N, P, and Q are higher than those for the Institute whereas the average results for the other mills are lower. The maximum variation for the current period is twenty-one per cent. Only the differences for Mills E, G, I, and N appear to be excessive.

TABLE XXII

SUMMARY OF TEST RESULT COMPARISONS
(Average Mill and Institute Results)

	Mills*																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
No. of Samples Compared	10	6	8	16	2	12	6	4	6	6	2	6	4	4	1	6	3
Basis Weight																	
Institute	43.6	43.4	44.0	43.3	42.7	42.3	43.3	42.6	42.3	42.8	44.5	43.0	43.1	41.7	43.0	43.6	42.4
Mill	42.9	42.7	43.8	43.9	43.0	42.1	43.3	43.3	42.4	42.5	44.1	42.3	42.6	41.7	43.0	43.5	41.7
Av. Diff.**	-0.7	-0.7	-0.2	+0.6	+0.3	-0.2	0.0	+0.7	+0.1	-0.3	-0.4	-0.7	-0.5	0.0	0.0	-0.1	-0.7
Max. Diff.***	-1.1	-1.0	-0.4	+1.5	+0.4	-0.9	±0.7	+1.0	+0.3	-0.7	-0.7	-0.9	-0.7	±0.2	0.0	-0.8	-0.9
Caliper																	
Institute	12.5	12.2	14.1	12.5	13.8	11.9	12.7	12.0	12.2	12.3	13.6	13.4	13.3	12.0	11.8	12.2	13.6
Mill	12.4	12.0	13.7	12.4	12.6	11.5	12.3	11.9	12.2	11.8	13.0	12.9	12.7	11.7	11.5	12.0	13.2
Av. Diff.**	-0.1	-0.2	-0.4	-0.1	-1.2	-0.4	-0.4	-0.1	0.0	-0.5	-0.6	-0.5	-0.6	-0.3	-0.3	-0.2	-0.4
Max. Diff.***	+0.4	-0.5	-0.6	-0.4	-1.3	-0.7	-0.8	-0.1	±0.1	-0.8	-0.7	-0.8	-0.7	-0.4	-0.3	-0.4	-0.7
Bursting Strength																	
Institute	118	114	102	109	104	108	107	112	107	105	104	106	109	105	112	110	104
Mill	117	115	105	108	109	113	106	109	108	102	107	107	111	105	113	106	114
Av. Diff.**	-1	+ 1	+3	-1	+5	+5	-1	-3	+1	-3	+3	+1	+2	0	+1	-4	+10
Max. Diff.***	-6	±5	+5	+10	+6	+11	-9	-4	±3	-8	+3	+4	+3	+4	+1	-7	+12
Tearing Strength, in																	
Institute	334	323	335	354	366	377	330	360	292	354	410	339	370	347	375	367	346
Mill	329	312	329	364	308	393	371	346	331	340	393	335	381	376	331	377	368
Av. Diff.**	-5	-11	-6	+10	-58	+16	+41	-14	+39	-14	-17	-4	+11	+29	-44	+10	+22
Max. Diff.***	-36	-24	-20	+33	-60	+41	+72	+54	+53	-34	-26	-39	+40	+46	-44	+36	+40
Tearing Strength, across																	
Institute	391	365	367	384	381	409	366	374	348	361	415	382	392	385	402	398	373
Mill	385	367	387	389	341	432	419	391	399	369	420	383	394	464	364	402	406
Av. Diff.**	-6	+2	+20	+5	-40	+23	+53	+17	+51	+8	+5	+1	+2	+79	-38	+4	+33
Max. Diff.***	-30	+19	+39	+22	-57	+59	+74	+45	+69	+27	+22	-25	+25	+85	-38	+25	+46

* Comparison based on averages involved only those samples on which mill test data were submitted.
** Average difference is the difference between the Institute mill average and the mill average based on mill test data.
*** Maximum difference encountered in comparing the Institute average and the mill average for any sample submitted by that particular mill.

TABLE XXIII

COMPARISON OF INSTITUTE-MILL DIFFERENCES BY PERIODS

Mill	Period	Difference, per cent				
		Basis Weight	Caliper	Bursting Strength	Tearing Strength In	Tearing Strength Across
A	Current	-2	-0.8	-0.8	-1	-2
	99th	-1	-2	+2	-6	-3
	98th	-1	-0.8	0	-5	-3
B	Current	-2	-2	+0.9	-3	+0.5
	99th	+0.7	0	0	+2	+4
	98th	-0.7	0	+0.9	+1	+7
C	Current	-0.5	-3	+3	-2	+5
	99th	+1	-2	0	+0.9	+10
	98th	+0.7	-1	+2	+0.9	+4
D	Current	+1	-0.8	-0.9	+3	+1
	99th	+0.9	-0.8	-4	-1	+0.3
	98th	0	-3	-2	-3	-0.5
E	Current	+0.7	-9	+5	-16	-10
	99th	+2	-6	+3	-3	+4
	98th	+3	-5	+1	+8	+5
F	Current	-0.5	-3	+5	+4	+6
	99th	+0.2	-4	+5	+3	+5
	98th	+0.2	-3	+4	+2	+5
G	Current	0	-3	-0.9	+12	+14
	99th	-0.9	-2	0	+14	+6
	98th	0	-2	+0.9	+14	+8
H	Current	+2	-0.8	-3	-4	+5
	99th	+2	-0.8	0	+2	+6
	98th	+2	0	-0.9	+10	+13
I	Current	+0.2	0	+0.9	+13	+15
	99th	+4	+0.8	+2	+5	+20
	98th	0	-0.8	0	+10	+13
J	Current	-0.7	-4	-3	-4	+2
	99th	-0.2	-4	-4	-6	-3
	98th	-0.7	-2	-5	-0.8	+6
K	Current	-0.9	-4	+3	-4	+1
	99th	-1	-2	+2	-7	+4
	98th	0	-2	+2	-7	+0.8
L	Current	-2	-4	+0.9	-1	+0.3
	99th	-2	-2	-4	+0.3	+2
	98th	-0.2	-2	-4	+0.9	+5
M	Current	-1	-5	+2	+3	+0.5
	99th	-0.5	-5	+0.9	+8	+1
	98th	+0.9	-5	-4	+13	+4
N	Current	0	-2	0	+8	+21
	99th	-0.2	-2	-2	+6	+18
	98th	+0.2	-2	-2	+7	+15
O	Current	0	-3	+0.9	-12	-9
	99th	+1	-2	0	-12	-4
	98th	+0.5	-0.9	-4	-11	-2
P	Current	-0.2	-2	-4	+3	+1
	99th	+0.2	-4	-3	+7	+4
	98th	+0.2	-4	-3	+6	+5
Q	Current	-2	-3	+10	+6	+9
	99th	-0.9	-2	+3	+7	+7
	98th	0	-2	-0.9	+11	+8

TABLE XXIV

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
					Mill A--42-lb. Linerboard														
166098	A-690	W.F.	9/25/55	1	43.6	42.9	-0.7	12.7	12.8	+0.1	120	114	-6	336[a]	325	-11	392[a]	378	-14
166099	A-691	W.F.	9/26/55	1	42.0	42.4	+0.4	12.0	12.4	+0.4	120	119	-1	297[a]	313	+16	368[a]	373	+ 5
166288	A-692	W.F.	10/ 2/55	1	44.0	43.2	-0.8	12.7	12.6	-0.1	117	115	-2	317	326	+ 9	382[a]	399	+17
166289	A-693	W.F.	10/ 2/55	2	44.4	43.3	-1.1	12.4	12.4	0.0	117	119	+2	371[a]	335	-36	398[a]	394	- 4
166314	A-694	W.F.	10/ 9/55	2	43.2	42.6	-0.6	12.2	12.1	-0.1	110	114	+4	312	310	- 2	367[a]	367	0
166315	A-695	W.F.	10/10/55	2	42.7	42.2	-0.5	12.2	12.0	-0.2	113	114	+1	328[a]	312	-16	367[a]	368	+ 1
166499	A-696	W.F.	10/19/55	2	44.2	43.1	-1.1	12.4	12.3	-0.1	123	119	-4	350	349	- 1	415[a]	390	-25
166500	A-697	W.F.	10/19/55	2	44.0	42.9	-1.1	12.6	12.3	-0.3	122	121	-1	353[a]	335	-18	395[a]	386	- 9
166501	A-698	W.F.	10/23/55	2	43.8	43.2	-0.6	12.8	12.6	-0.2	116	120	+4	335[a]	345	+10	401[a]	403	+ 2
166502	A-699	W.F.	10/23/55	2	43.9	43.1	-0.8	12.7	12.7	0.0	116	116	0	338	345	+ 7	425[a]	395	-30
Current Mill Average:					43.6	42.9	-0.7	12.5	12.4	-0.1	118	117	-1	334	329	—5	391	385	- 6

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXV

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill B--42-lb. Linerboard																			
166093	B-1241	W.F.	9/21/55	1	43.0	42.2	-0.8	12.3	11.8	-0.5	114	116	+2	317[a]	309	- 8	369[a]	357	-12
166094	B-1242	W.F.	9/23/55	1	43.1	42.1	-1.0	12.2	11.7	-0.5	112	115	+3	327[a]	313	-14	353[a]	360	+ 7
166261	B-1243	W.F.	10/ 3/55	1	43.4	42.9	-0.5	12.1	11.9	-0.2	120	115	-5	311	306	- 5	370[a]	370	0
166327	B-1244	W.F.	10/10/55	1	43.4	43.0	-0.4	12.1	12.1	0.0	111	116	+5	339[a]	324	-15	359[a]	378	+19
166428	B-1245	W.F.	10/13/55	1	43.6	42.8	-0.8	12.3	12.1	-0.2	113	115	+2	319	315	- 4	371[a]	370	- 1
166445	B-1246	W.F.	10/19/55	1	43.7	43.4	-0.3	12.2	12.1	-0.1	113	114	+1	327[a]	303	-24	368[a]	370	+ 2
Current Mill Average:					43.4	42.7	-0.7	12.2	12.0	-0.2	114	115	+1	323	312	-11	365	367	+ 2

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXVI

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
								Mill C--42-lb. Linerboard											
166227	C-697	WF ISL	9/19/55	1	46.3	46.1	-0.2	15.2	14.8	-0.4	102	107	+5	365[a]	354	-11	394[a]	405	+11
166228	C-698	WF ISL	9/19/55	1	46.2	46.1	-0.1	15.0	14.7	-0.3	99	104	+5	366	346	-20	363[a]	402	+39
166229	C-699	WF ISL	9/20/55	1	44.7	44.3	-0.4	14.4	13.9	-0.5	100	103	+3	324[a]	313	-11	358[a]	374	+16
166230	C-700	WF ISL	9/20/55	1	44.3	44.0	-0.3	14.2	13.9	-0.3	102	103	+1	333[a]	337	+ 4	367[a]	376	+ 9
166231	C-701	WF ISL	9/27/55	1	43.3	43.2	-0.1	13.2	13.0	-0.2	108	108	0	322[a]	335	+13	378[a]	406	+28
166232	C-702	WF ISL	9/27/55	1	43.2	43.0	-0.2	13.1	13.0	-0.1	104	108	+4	331[a]	323	- 8	348[a]	385	+37
166233	C-703	WF ISL	9/27/55	1	42.1	42.0	-0.1	13.8	13.3	-0.5	100	103	+3	328[a]	312	-16	377[a]	376	- 1
166234	C-704	WF ISL	9/28/55	1	42.5	42.2	-0.3	13.9	13.3	-0.6	101	104	+3	313[a]	313	0	348[a]	376	+28
Current Mill Average:					44.0	43.8	-0.2	14.1	13.7	-0.4	102	105	+3	335	329	- 6	367	387	+20

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXVII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill D--42-lb. Linerboard																			
166084	D-896	W.F.	9/20/55	4	42.9	44.4	+1.5	12.6	12.2	-0.4	102	112	+10	331[a]	355	+24	383[a]	393	+10
166085	D-897	W.F.	9/21/55	4	43.9	43.9	0.0	12.2	12.1	-0.1	113	117	+ 4	315[a]	340	+25	394[a]	407	+13
166086	D-898	W.F.	9/22/55	4	43.4	44.2	+0.8	12.4	12.5	+0.1	111	114	+ 3	373[a]	375	+ 2	396[a]	411	+15
166087	D-899	W.F.	9/23/55	4	42.9	43.8	+0.9	13.0	13.0	0.0	104	108	+ 4	361[a]	377	+16	384[a]	397	+13
166179	D-900	W.F.	10/ 1/55	4	43.0	43.4	+0.4	12.2	12.1	-0.1	107	106	- 1	341[a]	361	+20	379[a]	389	+10
166180	D-901	W.F.	10/ 2/55	4	42.7	42.9	+0.2	12.4	12.4	0.0	115	116	+ 1	358[a]	357	- 1	401[a]	392	- 9
166181	D-902	W.F.	10/ 3/55	4	44.0	43.8	-0.2	12.3	12.0	-0.3	112	112	0	355[a]	357	+ 2	389[a]	397	+ 8
166235	D-903	W.F.	10/ 4/55	4	43.1	43.5	+0.4	12.4	12.1	-0.3	108	108	0	362[a]	363	+ 1	369[a]	383	+14
166236	D-904	W.F.	10/ 5/55	4	42.6	43.4	+0.8	12.7	12.5	-0.2	108	110	+ 2	343[a]	340	- 3	382[a]	389	+ 7
166237	D-905	W.F.	10/ 6/55	4	44.0	44.6	+0.6	12.4	12.3	-0.1	113	111	- 2	353[a]	385	+32	397[a]	380	-17
166320	D-906	W.F.	10/ 7/55	4	42.4	42.5	+0.1	12.4	12.1	-0.3	110	104	- 6	352[a]	343	- 9	355[a]	344	-11
166321	D-907	W.F.	10/ 8/55	4	42.6	43.9	+1.3	12.5	12.5	0.0	102	104	+ 2	347[a]	345	- 2	381[a]	376	- 5
166322	D-908	W.F.	10/ 9/55	4	43.5	43.7	+0.2	12.7	12.4	-0.3	110	102	- 8	355[a]	344	-11	382[a]	372	-10
166407	D-909	W.F.	10/17/55	4	44.1	44.7	+0.6	12.9	12.5	-0.4	105	103	- 2	367[a]	385	+18	367[a]	389	+22
166408	D-910	W.F.	10/18/55	4	44.3	44.6	+0.3	12.8	12.6	-0.2	110	104	- 6	371[a]	404	+33	395[a]	405	+10
166409	D-911	W.F.	10/19/55	4	43.9	44.5	+0.6	12.8	12.7	-0.1	111	105	- 6	379[a]	392	+13	397[a]	392	- 5
Current Mill Average:					43.3	43.9	+0.6	12.5	12.4	-0.1	109	108	- 1	354	364	+10	384	389	+ 5

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXVIII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill E--42-lb. Linerboard																			
166301	E-179	WFlS	10/10/55	2	42.2	42.6	+0.4	13.7	12.4	-1.3	105	108	+3	354[a]	294	-60	381[a]	324	-57
166463	E-181	WFlS	10/21/55	2	43.2	43.3	+0.1	13.9	12.7	-1.2	104	110	+6	377[a]	322	-55	381[a]	358	-23
Current Mill Average:					42.7	43.0	+0.3	13.8	12.6	-1.2	104	109	+5	366	308	-58	381	341	-40

TABLE XXIX

Mill F--42-lb. Linerboard

166128	F-50	W.B.	9/19/55	-	44.2	43.8	-0.4	11.7	11.5	-0.2	105	116	+11	371[a]	404	+33	407[a]	453	+46
166129	F-51	W.B.	9/21/55	-	42.4	42.0	-0.4	11.7	11.3	-0.4	104	110	+ 6	380[a]	404	+24	393[a]	421	+28
166130	F-52	W.B.	9/22/55	-	42.2	42.1	-0.1	11.8	11.4	-0.4	110	114	+ 4	385[a]	408	+23	401[a]	460	+59
166131	F-53	W.B.	9/22/55	-	41.3	41.6	+0.3	11.7	11.5	-0.2	104	110	+ 6	391[a]	391	0	407[a]	416	+ 9
166262	F-54	W.B.	9/27/55	-	42.1	42.0	-0.1	12.1	11.8	-0.3	106	113	+ 7	385[a]	409	+24	405[a]	428	+23
166263	F-55	W.B.	9/27/55	-	42.0	41.6	-0.4	11.9	11.5	-0.4	112	114	+ 2	356[a]	367	+11	403[a]	399	- 4
166276	F-56	W.B.	9/28/55	-	43.6	43.6	0.0	12.3	12.2	-0.1	117	116	- 1	387[a]	428	+41	420[a]	464	+44
166277	F-57	W.B.	9/29/55	-	42.4	42.4	0.0	12.1	11.9	-0.2	109	106	- 3	371[a]	400	+29	418[a]	432	+14
166420	F-58	W.B.	10/ 6/55	-	42.8	42.4	-0.4	12.1	11.4	-0.7	108	113	+ 5	392[a]	387	- 5	425[a]	449	+24
166421	F-59	W.B.	10/10/55	-	41.0	41.0	0.0	11.6	11.2	-0.4	112	120	+ 8	363[a]	381	+18	413[a]	417	+ 4
166422	F-60	--	10/10/55	-	40.9	40.4	-0.5	11.4	11.0	-0.4	105	112	+ 7	359[a]	348	-11	409[a]	420	+11
166423	F-61	W.B.	10/12/55	-	42.6	41.7	-0.9	12.2	11.8	-0.4	110	111	+ 1	387[a]	389	+ 2	408[a]	423	+15
Current Mill Average:					42.3	42.1	-0.2	11.9	11.5	-0.4	108	113	+ 5	377	393	+16	409	432	+23

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXX

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill G--42-lb. Linerboard																			
166132	G-680	W.F.	9/25/55	2	42.8	43.5	+0.7	12.4	12.0	-0.4	106	110	+4	295[a]	340	+45	308[a]	382	+74
166344	G-681	W.F.	10/ 8/55	2	44.0	43.3	-0.7	13.4	13.0	-0.4	110	104	-6	379[a]	383	+ 4	397[a]	428	+31
166345	G-682	W.F.	10/ 8/55	2	44.2	43.7	-0.5	13.8	13.0	-0.8	113	104	-9	355[a]	376	+21	392[a]	432	+40
166346	G-683	W.F.	10/ 9/55	2	42.6	42.7	+0.1	12.0	11.8	-0.2	105	106	+1	307	379	+72	356[a]	410	+54
166355	G-184	W.F.	10/ 9/55	2	43.4	43.6	+0.2	12.5	12.3	-0.2	106	103	-3	346[a]	381	+35	380[a]	439	+59
166404	G-185	W.F.	10/11/55	2	42.7	42.8	+0.1	12.0	12.1	+0.1	105	107	+2	299[a]	366	+67	360[a]	425	+65
Current Mill Average:					43.3	43.3	0.0	12.7	12.3	-0.4	107	106	-1	330	371	+41	366	419	+53

TABLE XXXI

Mill H--42-lb. Linerboard																			
166126	H-525	W.F.	9/26/55	2	42.8	43.5	+0.7	11.9	11.9	0.0	114	110	-4	353[a]	373	+20	393[a]	410	+17
166127	H-526	W.F.	9/27/55	2	43.0	44.0	+1.0	12.1	12.1	0.0	112	110	-2	361[a]	307	-54	375[a]	354	-21
166264	H-527	W.F.	10/ 3/55	2	42.3	42.4	+0.1	11.9	11.8	-0.1	105	102	-3	377[a]	367	-10	359[a]	404	+45
166265	H-528	W.F.	10/ 4/55	2	42.4	43.4	+1.0	12.0	12.0	0.0	117	115	-2	347[a]	335	-12	368[a]	395	+27
Current Mill Average:					42.6	43.3	+0.7	12.0	11.9	-0.1	112	109	-3	360	346	-14	374	391	+17

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
								Mill I--42-lb. Linerboard											
166088	I-492	WF1S	9/20/55	1	42.4	42.5	+0.1	12.2	12.3	+0.1	108	111	+3	315[a]	336	+21	347[a]	399	+52
166089	I-493	WF1S	9/22/55	1	42.1	42.3	+0.2	12.2	12.1	-0.1	106	108	+2	293[a]	346	+53	350[a]	403	+53
166091	I-494	WF1S	9/22/55	1	42.0	42.3	+0.3	12.2	12.2	0.0	109	109	0	284	324	+40	332[a]	401	+69
166092	I-495	WF1S	9/23/55	1	42.2	42.3	+0.1	12.1	12.1	0.0	106	108	+2	271	319	+48	341[a]	403	+62
166347	I-496	WF1S	10/12/55	1	42.6	42.5	-0.1	12.2	12.2	0.0	109	106	-3	295	339	+44	351[a]	397	+46
166427	I-497	WF1S	10/17/55	1	42.8	42.8	0.0	12.4	12.4	0.0	105	107	+2	294[a]	323	+29	369[a]	391	+22
Current Mill Average:					42.3	42.4	+0.1	12.2	12.2	0.0	107	108	+1	292	331	+39	348	399	+51

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXIII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill J--42-lb. Linerboard																			
166096	J-557	D.F.	9/23/55	-	42.8	42.1	-0.7	12.9	12.3	-0.6	108	100	-8	346[a]	312	-34	357[a]	359	+ 2
166097	J-558	D.F.	9/23/55	-	43.0	42.9	-0.1	13.1	12.9	-0.2	100	100	0	339[a]	332	- 7	374[a]	373	- 1
166316	J-559	W.F.	10/ 4/55	-	42.4	42.5	+0.1	12.1	11.8	-0.3	111	108	-3	388[a]	364	-24	363[a]	373	+10
166317	J-560	W.F.	10/ 4/55	-	42.5	42.5	0.0	12.0	11.6	-0.4	109	109	0	371[a]	361	-10	363[a]	365	+ 2
166405	J-561	D.F.	10/16/55	-	43.0	42.8	-0.2	12.0	11.2	-0.8	102	97	-5	339[a]	332	- 7	357[a]	384	+27
166406	J-562	D.F.	10/16/55	-	42.9	42.3	-0.6	11.9	11.1	-0.8	100	98	-2	341	337	- 4	351[a]	359	+ 8
Current Mill Average:					42.8	42.5	-0.3	12.3	11.8	-0.5	105	102	-3	354	340	-14	361	369	+ 8

TABLE XXXIV

Mill K--42-lb. Linerboard																			
166330	K-30	S.F.	10/11/55	7	44.1	43.4	-0.7	13.5	12.8	-0.7	104	106	+2	399[a]	373	-26	410[a]	398	-12
166481	K-31	S.F.	10/20/55	7	45.0	44.8	-0.2	13.6	13.2	-0.4	105	108	+3	421[a]	414	- 7	420[a]	442	+22
Current Mill average:					44.5	44.1	-0.4	13.6	13.0	-0.6	104	107	+3	410	393	-17	415	420	+ 5

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXV

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill L--42-lb. Linerboard																			
166297	L-395		9/18/55	1	42.4	41.8	-0.6	12.5	11.9	-0.6	107	104	-3	347[a]	337	-10	365[a]	376	+11
166298	L-396		9/19/55	1	42.5	42.1	-0.4	13.4	13.2	-0.2	106	110	+4	330[a]	359	+29	366[a]	388	+22
166299	L-397		9/21/55	1	43.2	42.3	-0.9	13.8	13.3	-0.5	108	108	0	341[a]	302	-39	395[a]	370	-25
166300	L-398		9/28/55	1	43.0	42.4	-0.6	13.8	13.0	-0.8	105	109	+4	345[a]	338	- 7	383[a]	391	+ 8
166429	L-399		10/ 4/55	1	43.4	42.5	-0.9	13.4	13.1	-0.3	102	105	+3	337[a]	338	+ 1	397[a]	386	-11
166430	L-400		10/ 8/55	1	43.2	42.5	-0.7	13.7	13.0	-0.7	107	107	0	335[a]	335	0	387[a]	389	+ 2
Current Mill Average:					43.0	42.3	-0.7	13.4	12.9	-0.5	106	107	+1	339	335	- 4	382	383	+ 1

TABLE XXXVI

Mill M--42-lb. Linerboard																			
166328	M-342	W.	10/ 3/55	2	43.6	42.9	-0.7	13.0	12.4	-0.6	109	111	+2	357	378	+21	387[a]	412	+25
166329	M-343	W.	10/ 4/55	2	42.8	42.2	-0.6	13.3	12.6	-0.7	114	114	0	361	401	+40	401[a]	384	-17
166424	M-344	W.	10/11/55	4	43.2	43.1	-0.1	13.5	13.0	-0.5	109	109	0	355[a]	349	- 6	383[a]	393	+10
166425	M-345	W.	10/14/55	4	42.8	42.3	-0.5	13.2	12.6	-0.6	106	109	+3	408[a]	395	-13	396[a]	389	- 7
Current Mill Average:					43.1	42.6	-0.5	13.3	12.7	-0.6	109	111	+2	370	381	+11	392	394	+ 2

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXVII

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill N--42-lb. Linerboard																			
166177	N-162	WFlS	9/27/55	1	41.3	41.5	+0.2	11.9	11.5	-0.4	104	108	+4	333	379	+46	402[a]	467	+65
166178	N-163	WFlS	9/22/55	1	41.9	42.1	+0.2	12.0	11.7	-0.3	107	107	0	345[a]	374	+29	383[a]	468	+85
166251	N-164	WFlS	10/ 4/55	1	41.8	41.6	-0.2	12.2	12.0	-0.2	107	105	-2	361[a]	365	+ 4	383[a]	464	+81
166252	N-165	WFlS	10/ 3/55	1	41.9	41.7	-0.2	12.1	11.8	-0.3	102	102	0	349[a]	386	+37	373[a]	457	+84
Current Mill Average:					41.7	41.7	0.0	12.0	11.7	-0.3	105	105	0	347	376	+29	385	464	+79

TABLE XXXVIII

Mill O--42-lb. Linerboard																			
166090	O-92	W.F.	9/18/55	4	43.0	43.0	0.0	11.8	11.5	-0.3	112	113	+1	375[a]	331	-44	402[a]	364	-38
Current Mill Average:					43.0	43.0	0.0	11.8	11.5	-0.3	112	113	+1	375	331	-44	402	364	-38

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXIX

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill P--42-lb. Linerboard																			
166414	P-107	--	10/12/55	-	43.0	42.9	-0.1	12.0	11.8	-0.2	106	104	-2	354[a]	361	+ 7	383[a]	399	+16
166415	P-108	W.F.	10/12/55	-	43.3	43.6	+0.3	12.1	11.9	-0.2	106	106	0	371[a]	372	+ 1	408[a]	407	- 1
166416	P-109	W.F.	10/13/55	-	43.0	42.8	-0.2	11.8	11.6	-0.2	118	112	-6	375[a]	387	+12	413[a]	401	-12
166417	P-110	W.F.	10/18/55	-	43.3	43.4	+0.1	12.4	12.0	-0.4	109	105	-4	351[a]	387	+36	392[a]	395	+ 3
166418	P-111	W.F.	10/18/55	-	44.8	44.0	-0.8	12.7	12.4	-0.3	109	102	-7	372	373	+ 1	380[a]	405	+25
166419	P-112	W.F.	10/20/55	-	44.3	44.0	-0.3	12.4	12.2	-0.2	110	107	-3	378[a]	380	+ 2	409[a]	403	- 6
Current Mill Average:					43.6	43.5	-0.1	12.2	12.0	-0.2	110	106	-4	367	377	+10	398	402	+ 4

TABLE XXXX

Mill Q--42-lb. Linerboard

166325	Q-39	WF1S	10/ 3/55	-	42.7	41.9	-0.8	13.8	13.4	-0.4	103	115	+12	373[a]	384	+11	373[a]	412	+39
166326	Q-40	WF1S	10/ 4/55	3	42.6	42.1	-0.5	13.9	13.6	-0.3	102	111	+ 9	334[a]	349	+15	381[a]	395	+14
166403	Q-41	WF1S	10/13/55	3	42.0	41.1	-0.9	13.2	12.5	-0.7	106	114	+ 8	331[a]	371	+40	365[a]	411	+46
Current Mill Average:					42.4	41.7	-0.7	13.6	13.2	-0.4	104	114	+10	346	368	+22	373	406	+33

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XLI

SUMMARY OF INDIVIDUAL TEST LOTS--OCTOBER 1 THROUGH OCTOBER 31, 1955 (continued)

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill E--47-lb. Drum Linerboard																			
166210	E-177	W.F.	9/29/55	2	45.7	46.0	+0.3	14.0	12.8	-1.2	104	106	+2	353[a]	380	+27	403[a]	431	+28
166426	E-180	W.F.	10/17/55	2	46.1	47.2	+1.1	13.5	12.5	-1.0	95	98	+3	395[a]	350	-45	395[a]	433	+38
Current Mill Average:					45.9	46.6	+0.7	13.8	12.7	-1.1	100	102	+2	374	365	- 9	399	432	+33
Mill E--38-lb. Linerboard																			
166095	E-176	WFlS	9/26/55	2	37.0	37.7	+0.7	11.8	11.1	-0.7	86	92	+6	329[a]	334	+ 5	319[a]	323	+ 4
166253	E-178	WFlS	10/ 5/55	2	37.7	38.6	+0.9	11.9	10.5	-1.4	100	105	+5	316[a]	320	+ 4	343[a]	354	+11
166503	E-182	WFlS	10/24/55	2	38.2	38.4	+0.2	11.9	11	-0.9	97	100	+3	301[a]	288	-13	329[a]	320	- 9

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.